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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=28; hr=11; min=23; sec=47; ms=978;  
]

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Application No: 09800863 Version No: 1.0

**Input Set:**

**Output Set:**

**Started:** 2008-11-05 11:33:21.560  
**Finished:** 2008-11-05 11:33:47.238  
**Elapsed:** 0 hr(s) 0 min(s) 25 sec(s) 678 ms  
**Total Warnings:** 43  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 446  
**Actual SeqID Count:** 446

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 402	Undefined organism found in <213> in SEQ ID (5)
W 402	Undefined organism found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 402	Undefined organism found in <213> in SEQ ID (16)
W 402	Undefined organism found in <213> in SEQ ID (19)
W 402	Undefined organism found in <213> in SEQ ID (20)
W 402	Undefined organism found in <213> in SEQ ID (29)
W 402	Undefined organism found in <213> in SEQ ID (30)
W 402	Undefined organism found in <213> in SEQ ID (37)
W 402	Undefined organism found in <213> in SEQ ID (38)
W 402	Undefined organism found in <213> in SEQ ID (41)
W 402	Undefined organism found in <213> in SEQ ID (42)
W 402	Undefined organism found in <213> in SEQ ID (43)
W 402	Undefined organism found in <213> in SEQ ID (44)

**Input Set:**

**Output Set:**

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Error code	Error Description
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W 402	Undefined organism found in <213> in SEQ ID (80)
W 402	Undefined organism found in <213> in SEQ ID (97)
W 402	Undefined organism found in <213> in SEQ ID (98) This error has occurred more than 20 times, will not be displayed
W 213	Artificial or Unknown found in <213> in SEQ ID (441)
W 213	Artificial or Unknown found in <213> in SEQ ID (442)
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SEQUENCE LISTING

<110> Busby, Robert  
Cali, Brian  
Hecht, Peter  
Holtzman, Doug  
Madden, Kevin  
Maxon, Mary  
Milne, Todd  
Norman, Thea  
Royer, John  
Salama, Sofie  
Sherman, Amir  
Silva, Jeff  
Summers, Eric

<120> Methods for Improving Secondary Metabolite Production in Fungi

<130> 23842-0002002

<140> 09800863  
<141> 2008-11-05

<150> US 09/801,368  
<151> 2001-03-07

<150> US 09/487,558  
<151> 2000-01-19

<150> US 60/160,587  
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540

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600

ctcgcatcc agatccccaa cagattgcca tccacgtcggtt attcaaccac agacggcaca

660

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720

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 35 40 45

Ile Val Thr Ala Ile Pro His Ile Thr Ala Gln Phe His Ser Leu Gly  
 50 55 60

Asp Val Gly Trp Tyr Gly Ser Ala Tyr Leu Leu Ser Ser Cys Ala Leu  
 65 70 75 80

Gln Pro Leu Ala Gly Lys Leu Tyr Thr Leu Leu Thr Leu Lys Tyr Thr  
 85 90 95

Phe Leu Ala Phe Leu Gly Leu Phe Glu Ile Gly Ser Val Leu Cys Gly  
 100 105 110

Thr Ala Arg Ser Ser Thr Met Leu Ile Val Gly Arg Ala Val Ala Gly  
 115 120 125

Met Gly Gly Ser Gly Leu Thr Asn Gly Ala Ile Thr Ile Leu Ser Ala  
 130 135 140

Ala Ala Pro Lys Gln Gln Gln Pro Leu Leu Ile Gly Ile Met Met Gly  
 145 150 155 160

Leu Ser Gln Ile Ala Ile Val Cys Gly Pro Leu Leu Gly Gly Ala Phe  
 165 170 175

Thr Gln His Ala Ser Trp Arg Trp Cys Phe Tyr Ile Asn Leu Pro Ile  
180 185 190

Gly Ala Phe Ala Thr Phe Leu Leu Leu Val Ile Gln Ile Pro Asn Arg  
195 200 205

Leu Pro Ser Thr Ser Asp Ser Thr Thr Asp Gly Thr Asn Pro Lys Arg  
210 215 220

Arg Gly Ala Arg Asp Val Leu Thr Gln Leu Asp Phe Leu Gly Phe Val  
225 230 235 240

Leu Phe Ala Gly Phe Ala Ile Met Ile Ser Leu Ala Leu Glu Trp Gly  
245 250 255

Gly Ser Asp Tyr Ala Trp Asn Ser Ser Val Ile Ile Gly Leu Phe Cys  
260 265 270

Ala Ala Gly Val Ser Leu Val Leu Phe Gly Cys Trp Glu Arg His Val  
275 280 285

Gly Gly Ala Val Ala Met Ile Pro Ile Ser Val Ala Ser Arg Arg Gln  
290 295 300

Val Trp Cys Ser Cys Phe Phe Leu Gly Phe Phe Ser Gly Ala Leu Leu  
305 310 315 320

Ile Phe Ser Tyr Tyr Leu Pro Ile Tyr Phe Gln Ala Val Lys Asn Val  
325 330 335

Ser Pro Thr Met Ser Gly Val Tyr Met Leu Pro Gly Ile Gly Gly Gln  
340 345 350

Ile Val Met Ala Ile Val Thr Gly Ala Ile Ile Gly Lys Thr Gly Tyr  
355 360 365

Tyr Val Pro Trp Ala Leu Ala Ser Gly Ile Leu Val Ser Ile Ser Ala  
370 375 380

Gly Leu Val Ser Thr Phe Gln Pro Glu Thr Ser Ile Ala Ala Trp Val  
385 390 395 400

Met Tyr Gln Phe Leu Gly Gly Val Gly Arg Gly Cys Gly Met Gln Thr  
405 410 415

Pro Val Val Ala Ile Gln Asn Ala Leu Pro Pro Gln Thr Ser Pro Ile  
420 425 430

Gly Ile Ser Leu Ala Met Phe Gly Gln Thr Phe Gly Gly Ser Leu Phe  
435 440 445

Leu Thr Leu Thr Glu Leu Val Phe Ser Asn Gly Leu Asp Ser Gly Leu  
450 455 460

Arg Gln Tyr Ala Pro Thr Leu Asn Ala Gln Glu Val Thr Ala Ala Gly  
465 470 475 480



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<213> Aspergillus terreus

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35 40 45  
Val Thr Phe Ser Ser Thr Cys Leu Leu Pro Ala Ala Pro Glu Ile Ala  
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Asn Glu Phe Asp Met Thr Val Glu Thr Ile Asn Ile Ser Asn Ala Gly  
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Val Leu Val Ala Met Gly Tyr Ser Ser Leu Ile Trp Gly Pro Met Asn  
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Lys Leu Val Gly Arg Arg Thr Ser Tyr Asn Leu Ala Ile Ser Met Leu  
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Cys Ala Cys Ser Ala Gly Thr Ala Ala Ala Ile Asn Glu Lys Met Phe  
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Ile Ala Phe Arg Val Leu Ser Gly Leu Thr Gly Thr Ser Phe Met Val  
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Ser Gly Gln Thr Val Leu Ala Asp Ile Phe Glu Pro Val Tyr Arg Gly  
145 150 155 160  
Thr Ala Val Gly Phe Phe Met Ala Gly Thr Leu Ser Gly Pro Ala Ile  
165 170 175  
Ala Cys Val Gly Gly Val Ile Val Thr Phe Thr Ser Trp Arg Val Ile  
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Phe Trp Leu Gln Leu Gly Met Ser Gly Leu Gly Leu Val Leu Ser Leu

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240		
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Ala Trp Glu Ile Cys Pro Leu His Leu Leu Glu Thr Lys Cys Ser Cys		
260	265	270
Arg Lys Gln Lys Asp Leu Cys Cys Gly Leu Leu Ala Ile Thr Gln Tyr		
275	280	285
Ser Ile Leu Thr Ser Ala Arg Ala Ile Phe Asn Ser Arg Phe His Leu		
290	295	300
Thr Thr Ala Leu Val Ser Gly Leu Phe Tyr Leu Ala Pro Gly Ala Gly		
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Arg Arg Tyr Ile Val Lys Arg Gly Phe Arg Leu Pro Gln Asp Arg Leu		
340	345	350
His Ser Gly Leu Ile Thr Leu Phe Ala Val Leu Pro Ala Gly Thr Leu		
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Ile Tyr Gly Trp Thr Leu Gln Glu Asp Lys Gly Gly Met Val Val Pro		
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Thr Phe Thr Leu Cys Val Val Ala Ser Thr Ile Ala Gly Leu Ile Thr		
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ggagatatcg aacatgcctt ccaacgatgc ctgtccctta ttgatgccc tcagggctt 240  
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gccaacctaa cctcttggtt accggtcgtatgaccagcg gccaagtgc agagatggtc 480  
gcatttgacc gccaagctgt gtcagctgtg cgctcgaagg tggctgaggc gaatgaaacg 540  
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